

## **ATTACHMENT E**

### **Statistical Evaluations and Plots Supplemental Information**

## **Attachment E**

### **Box-and-Whisker Plots Definitions**

### ***What is a "Box-and-Whisker Plot"?***

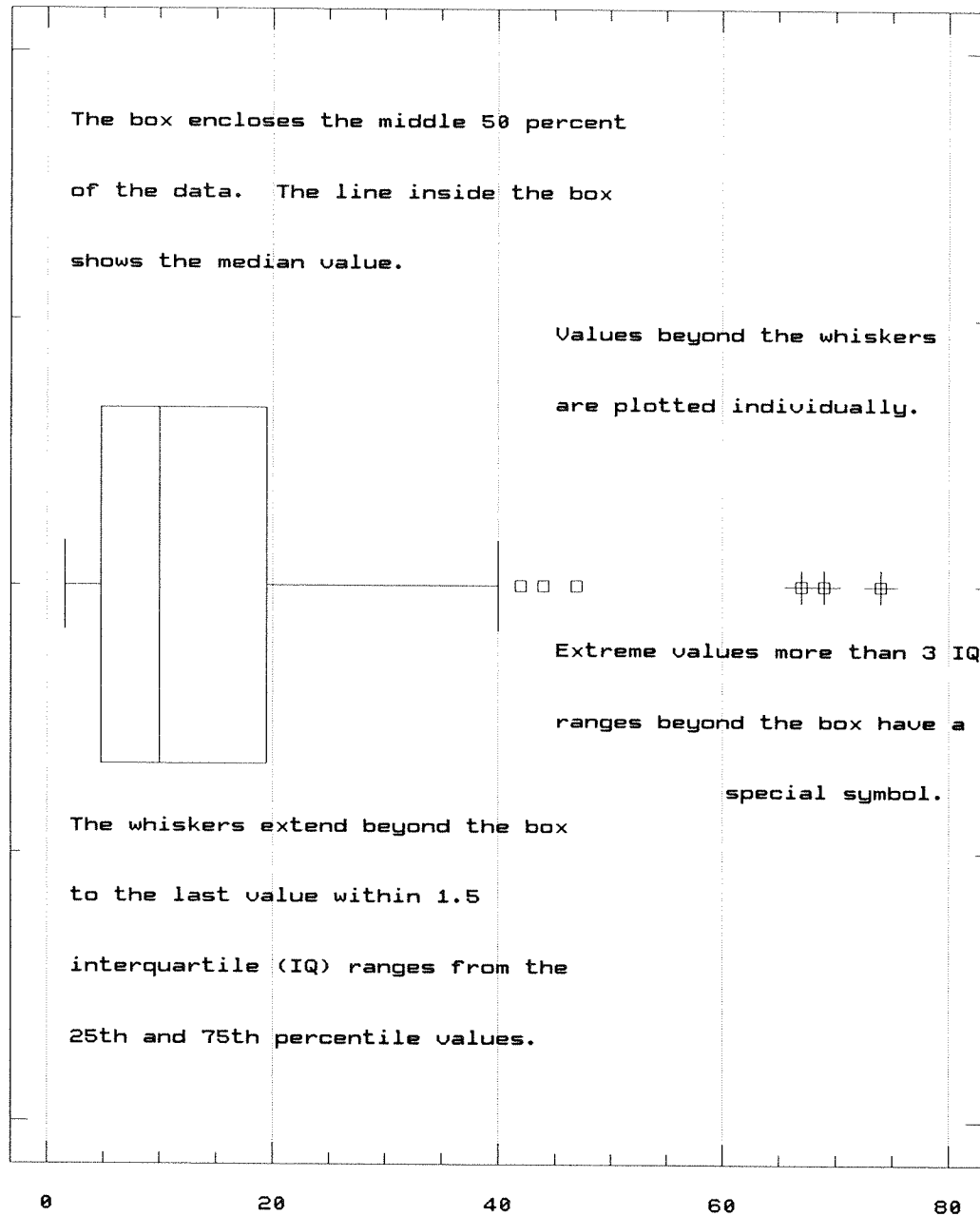
A Box-and-Whisker Plot is a method of visually presenting and summarizing a data set.

A Box-and-Whisker Plot visually summarizes some of the major properties of the data set - what the central (median) value is, how spread out the data are around that central value, whether the data are distributed symmetrically or asymmetrically around the central value, and whether any unusually large or small values ("outliers") occur in the data set.

To see what a Box-and-Whisker Plot does, consider first that all of the individual values in a data set can be plotted along a numerical scale, producing a simple "dot plot" of the data set. A Box-and-Whisker Plot concisely summarizes this "dot plot", eliminating many or all of the individual data points in favor of clearly identifying such summary values as the 25th, 50th, and 75th percentiles of the data set and showing the overall range of values. The numerical difference between the 25th and 75th percentiles is called the Interquartile Range and is shown by the length of the box in a Box-and-Whiskers Plot.

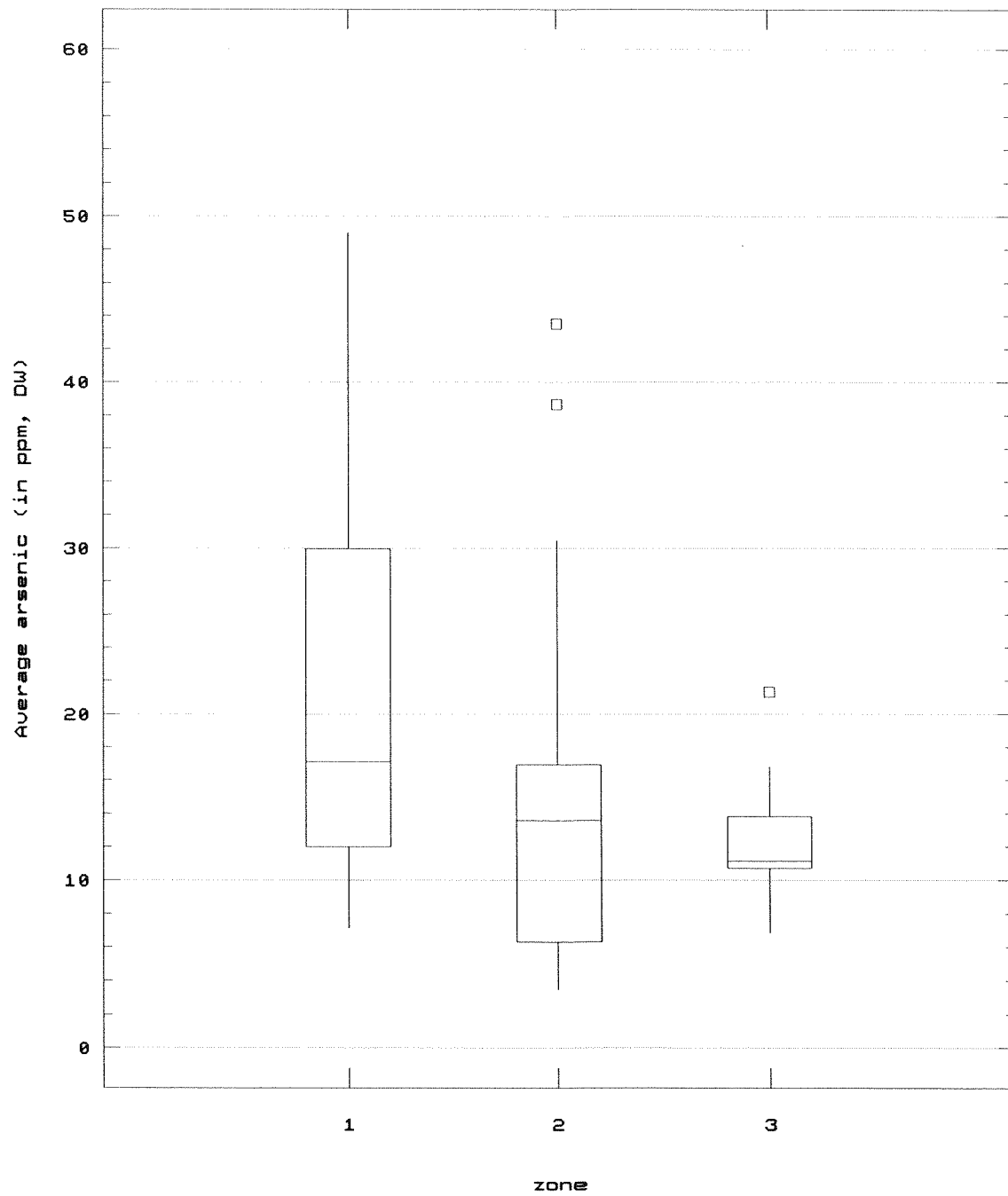
Box-and-Whisker Plots provide a quick and effective way of comparing multiple data sets. The individual Box-and-Whisker Plots for each data set are simply shown next to each other, using the same numerical scale for each one. For example, the arsenic values at different Child-Use Areas can be compared visually using side-by-side Box-and-Whisker Plots.

# Box-and-Whisker Plot Definitions

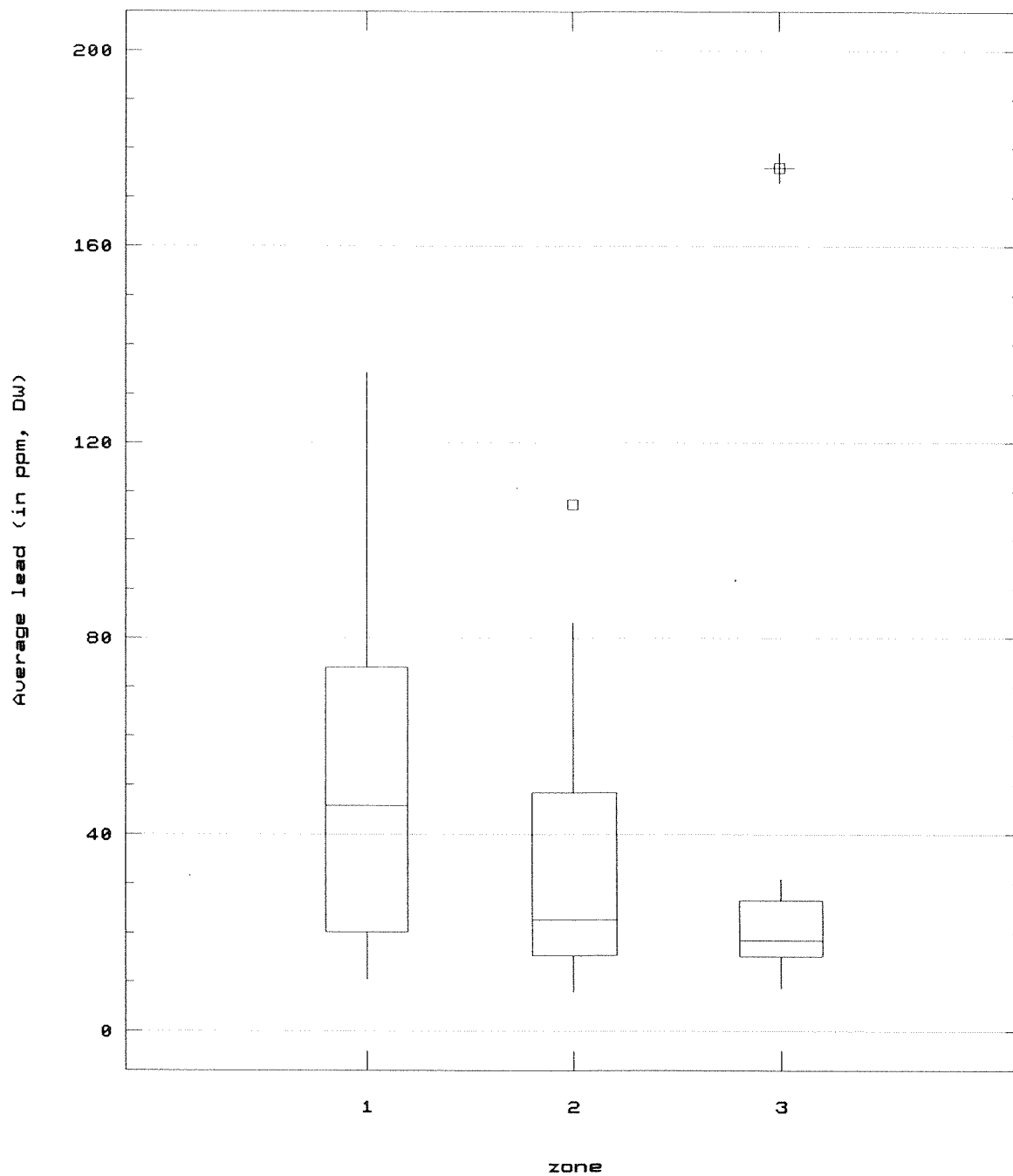


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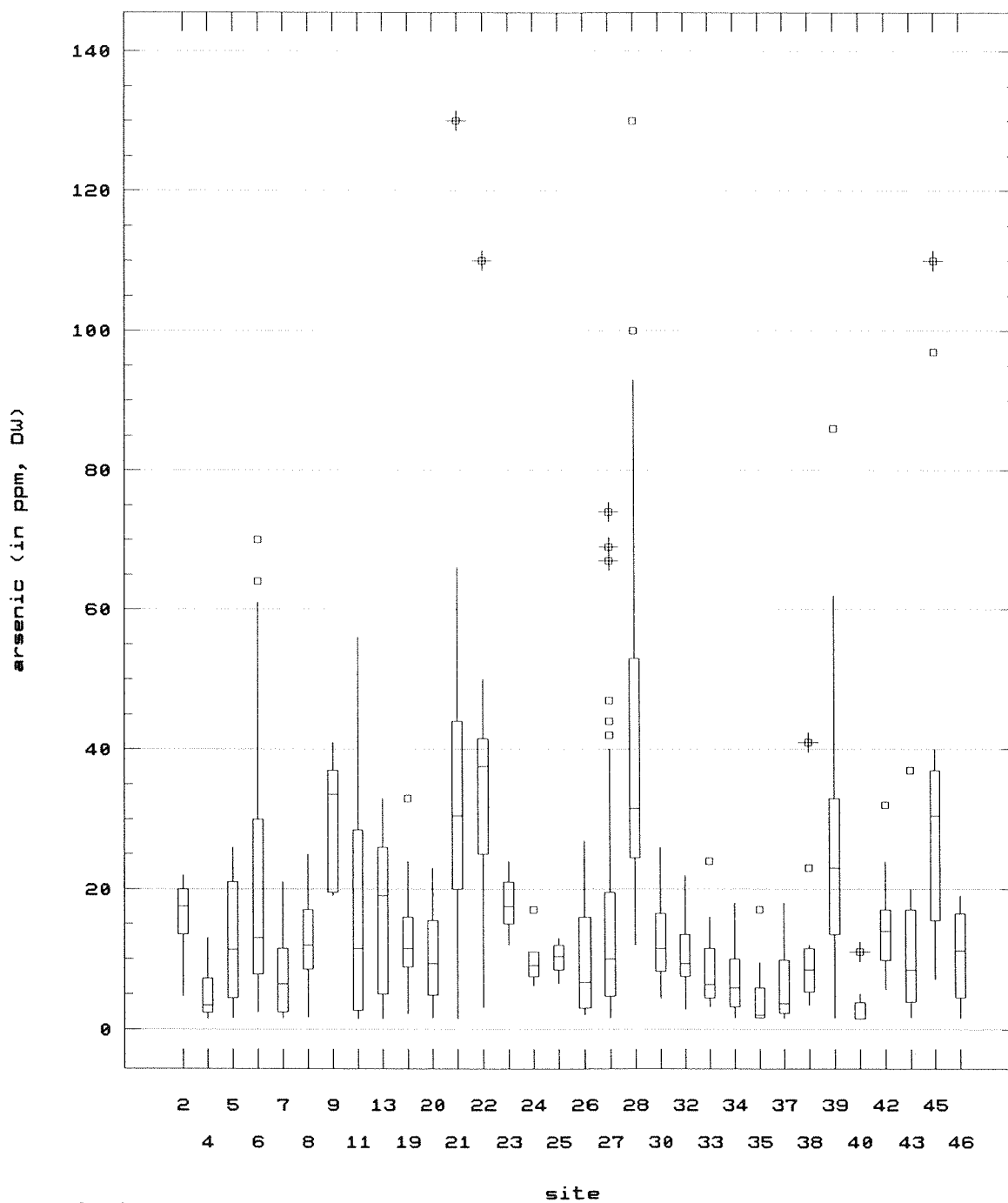
Multiple Box-and-Whisker Plot  
Average Arsenic, Non-Beach DUs



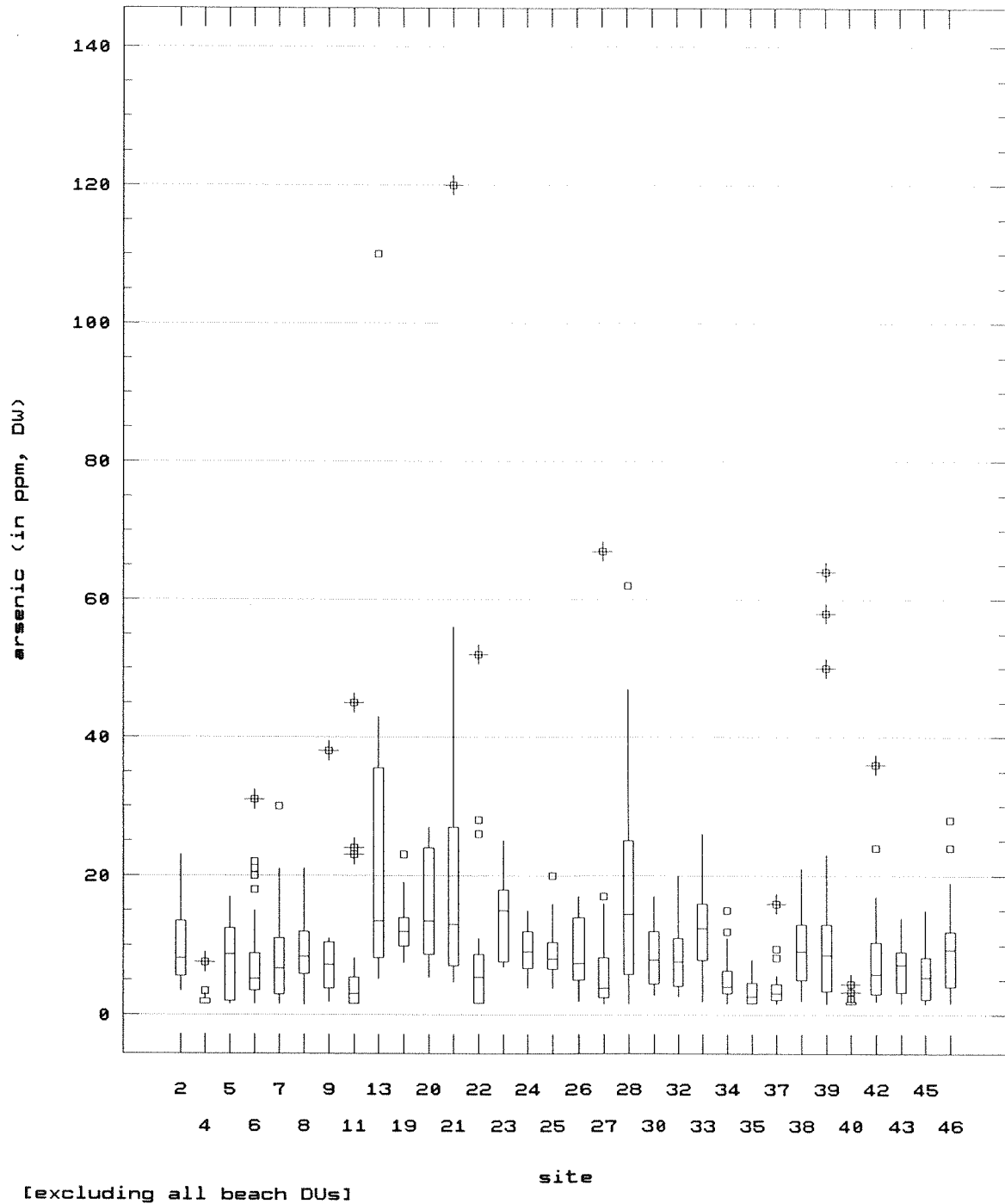
Multiple Box-and-Whisker Plot  
Average Lead, Non-Beach DUs



ARSENIC CONCENTRATIONS  
By Site, Soils from 0 to 6 inches

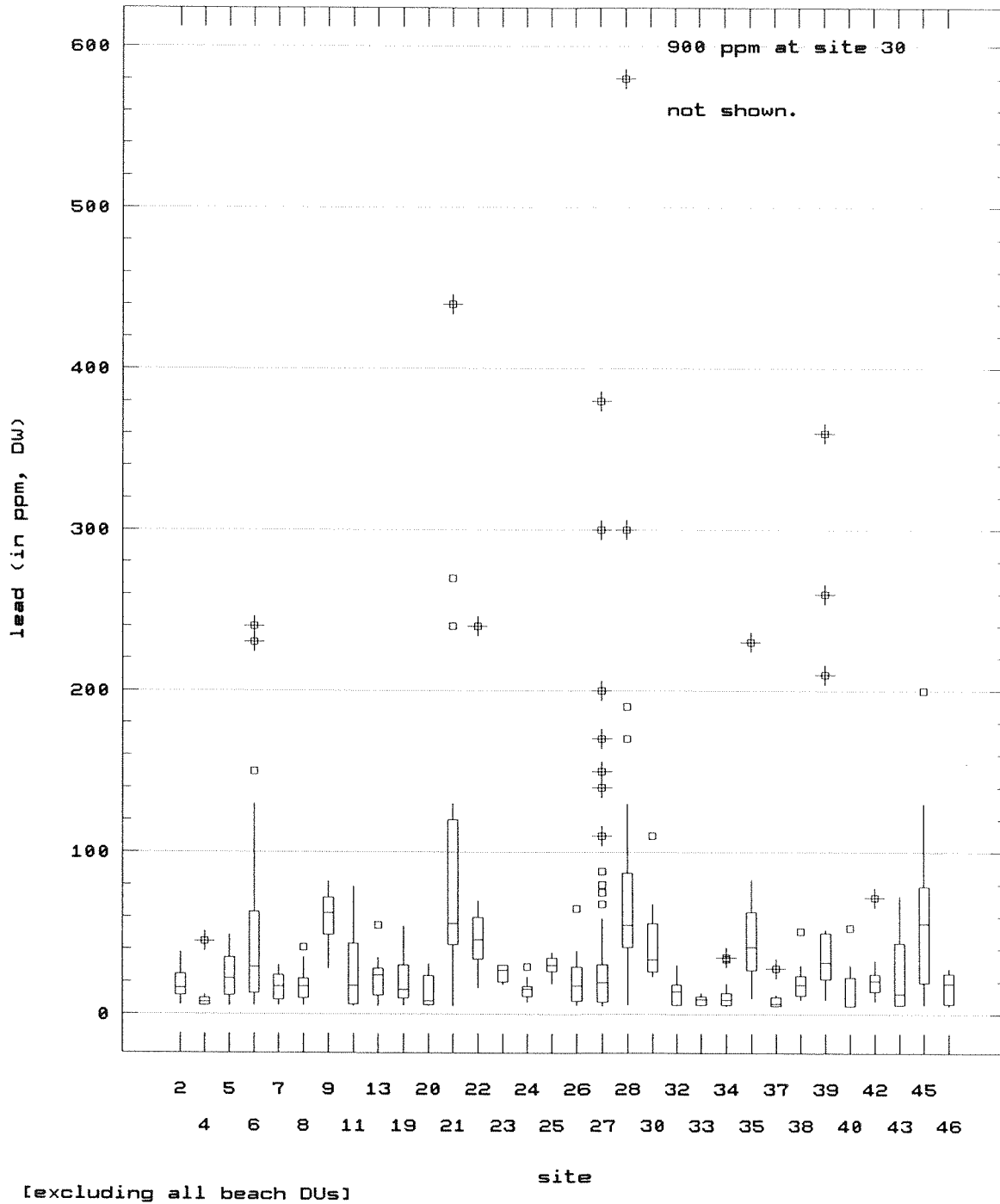


ARSENIC CONCENTRATIONS  
By Site, Soils below 6 inches

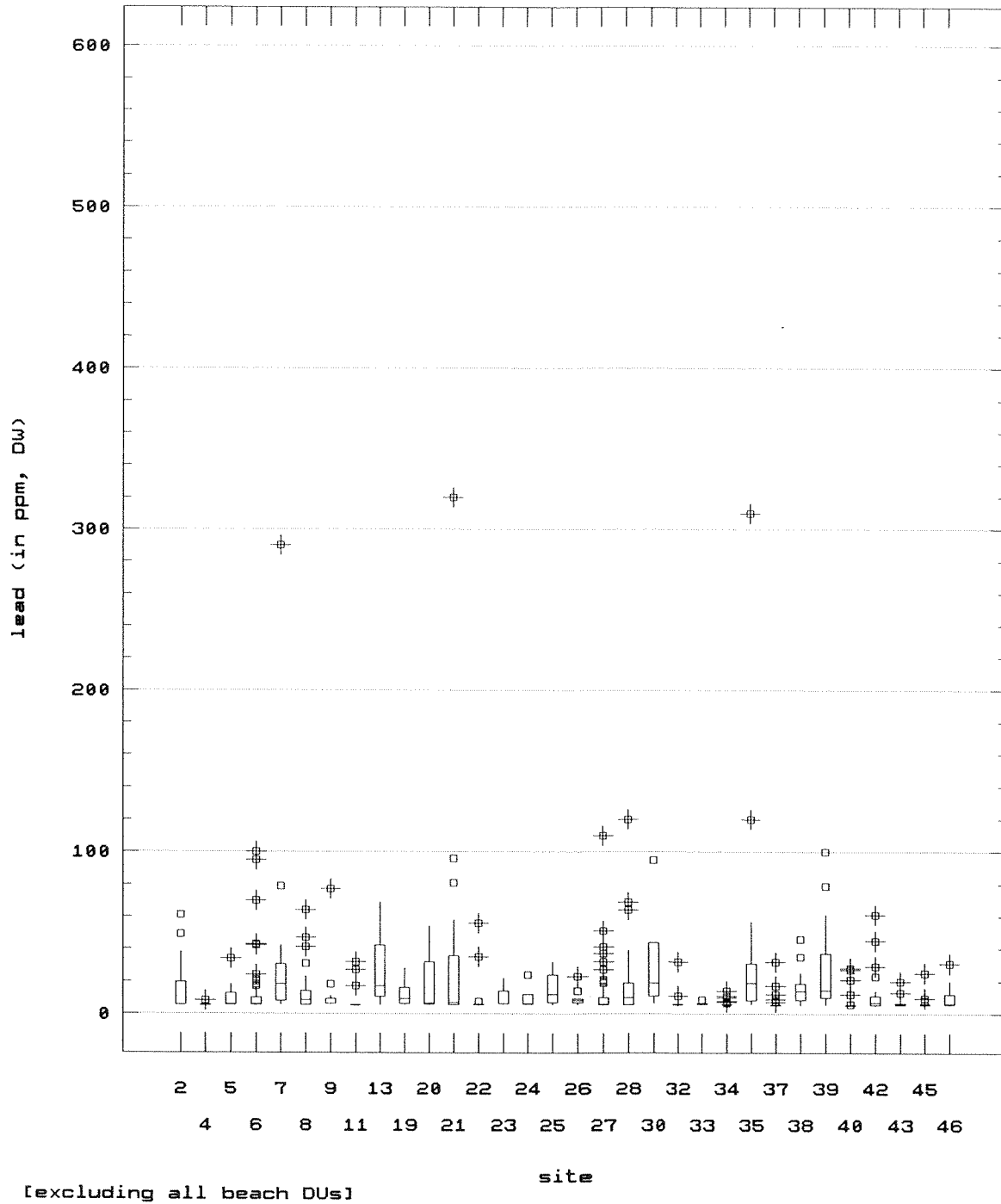




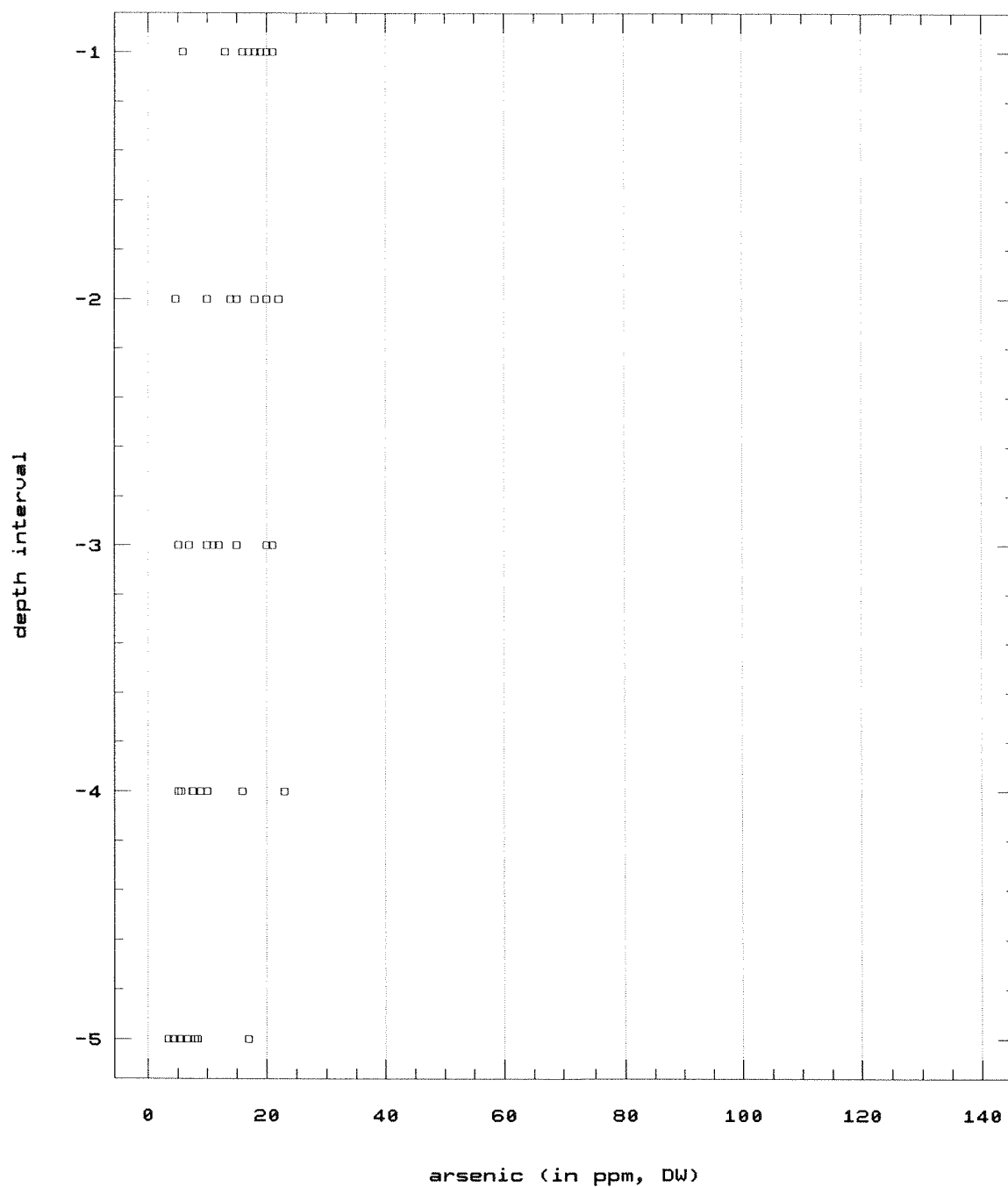
LEAD CONCENTRATIONS  
By Site, Soils from 0 to 6 inches



# LEAD CONCENTRATIONS By Site, Soils below 6 inches

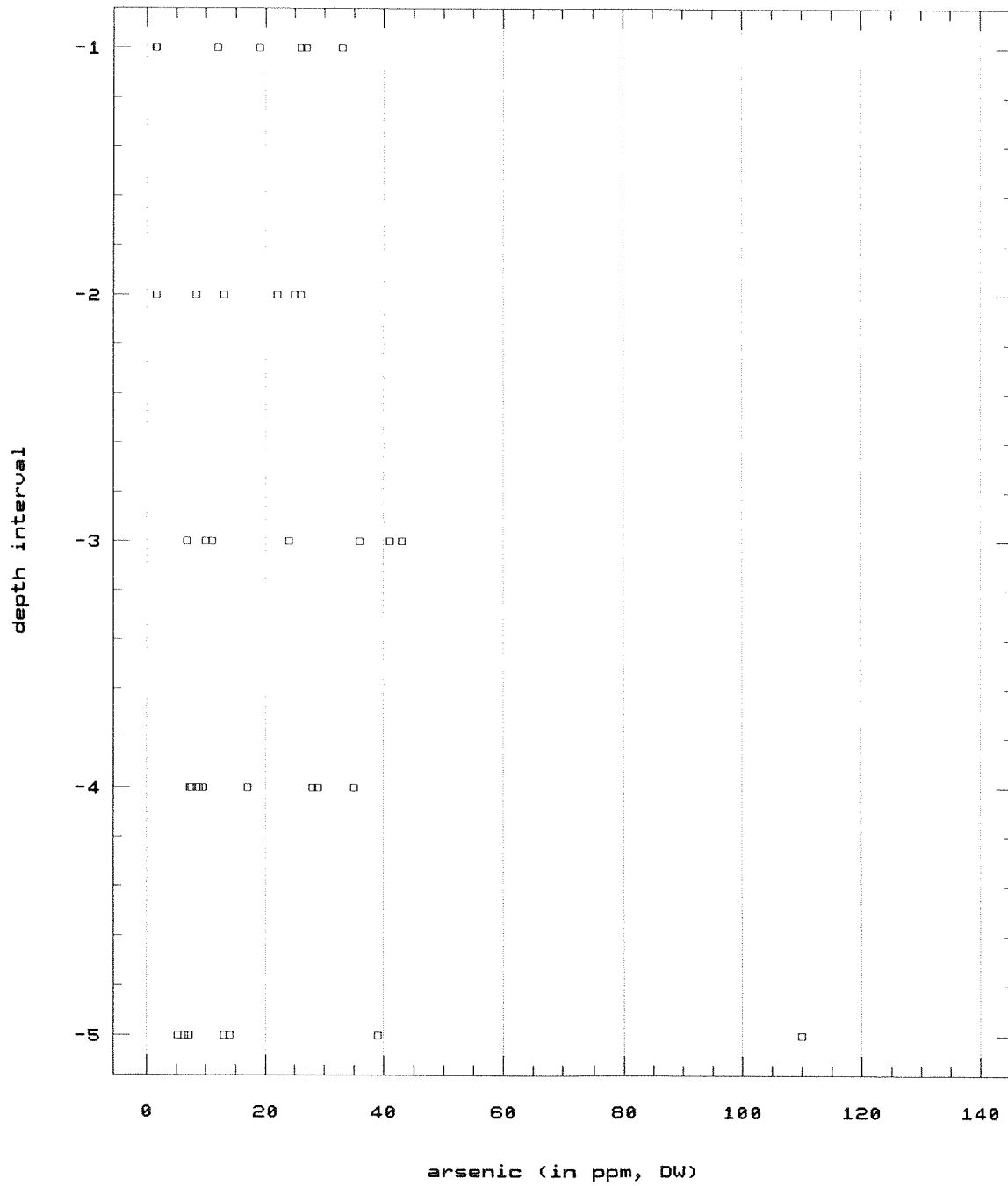


Child-Use Area 2 [Zone 1]  
Arsenic Concentrations by Depth



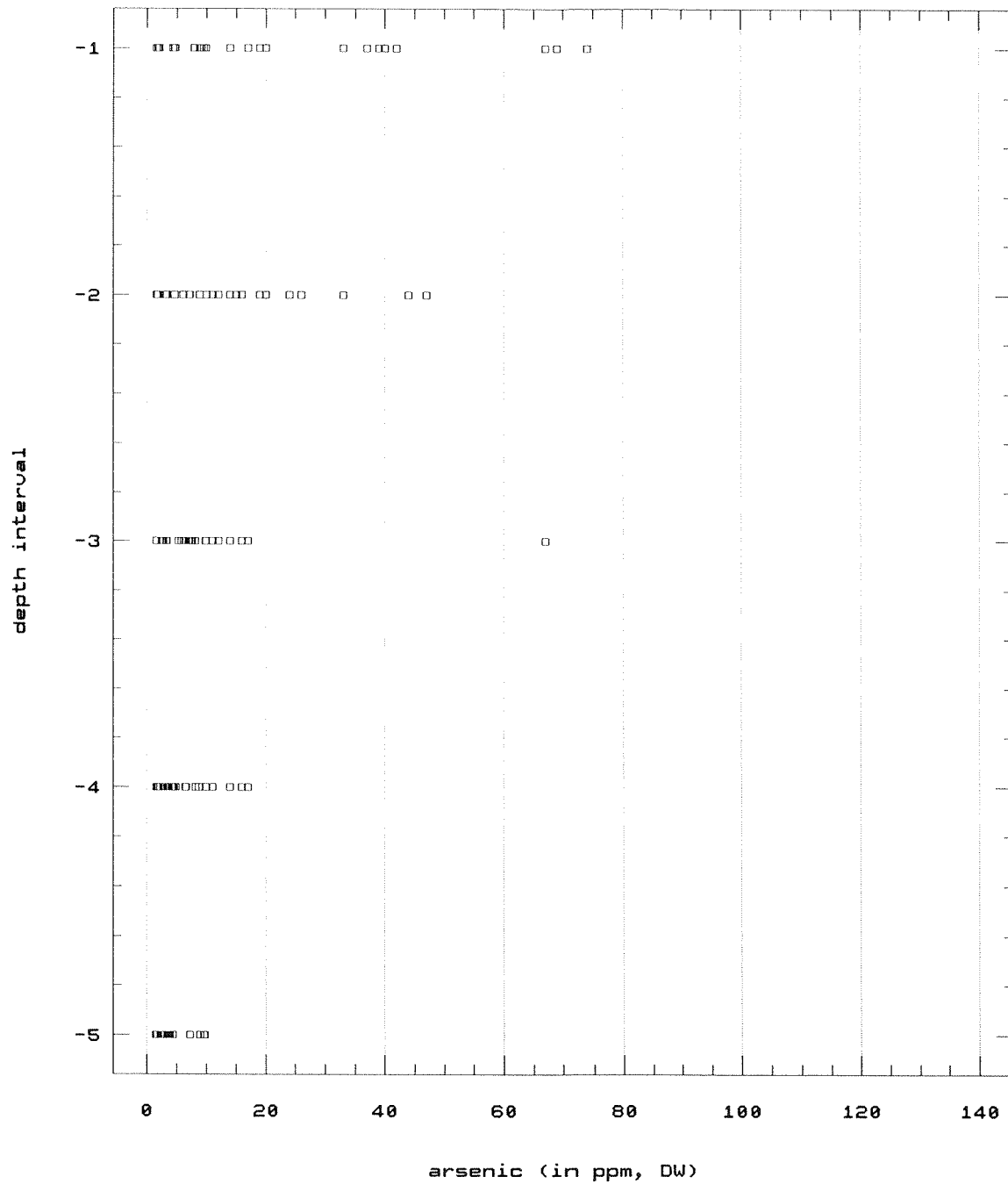
[beach samples, if any, excluded]

Child-Use Area 13 [Zone 1]  
Arsenic Concentrations by Depth



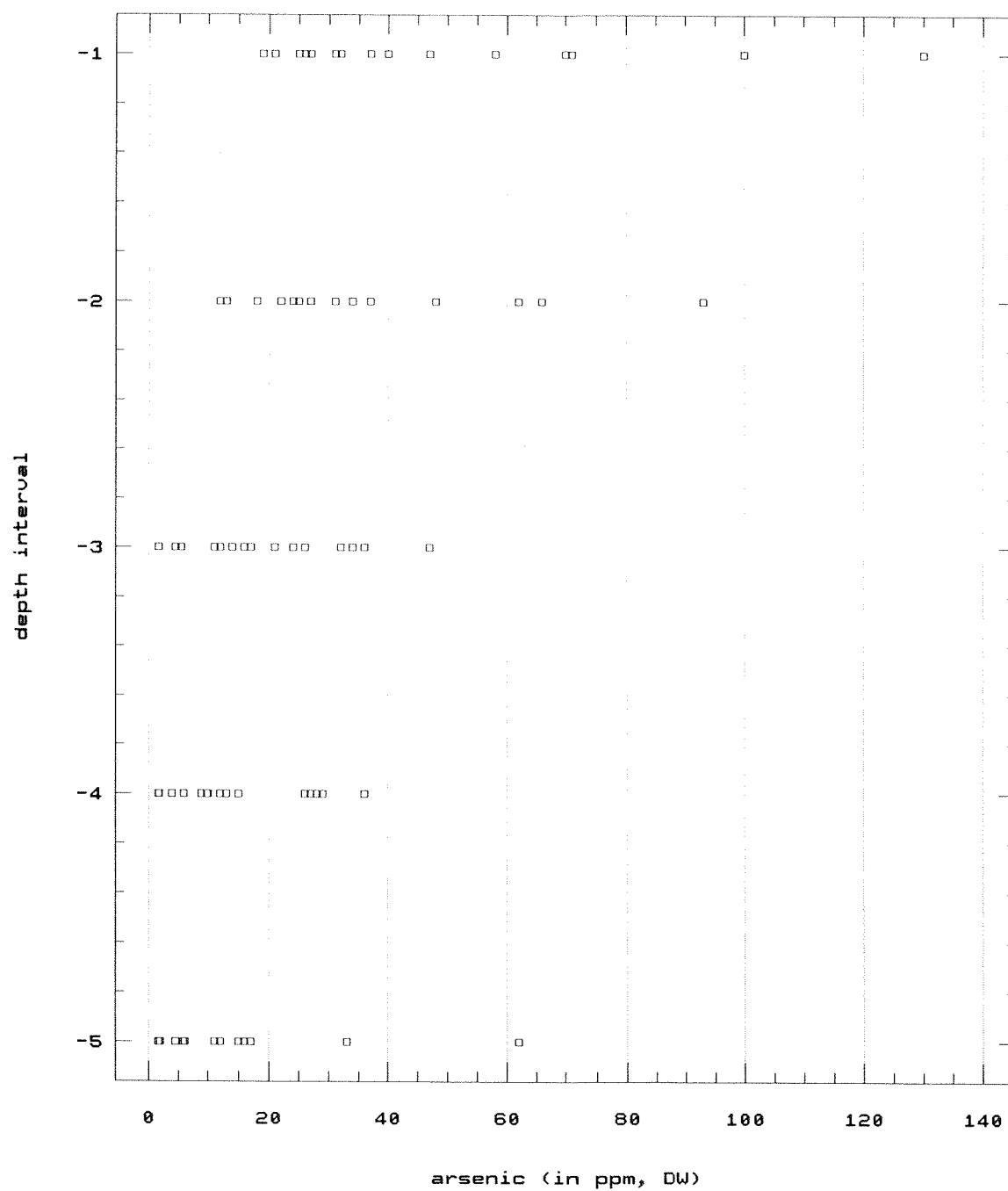
[beach samples, if any, excluded]

Child-Use Area 27 [Zone 1]  
Arsenic Concentrations by Depth



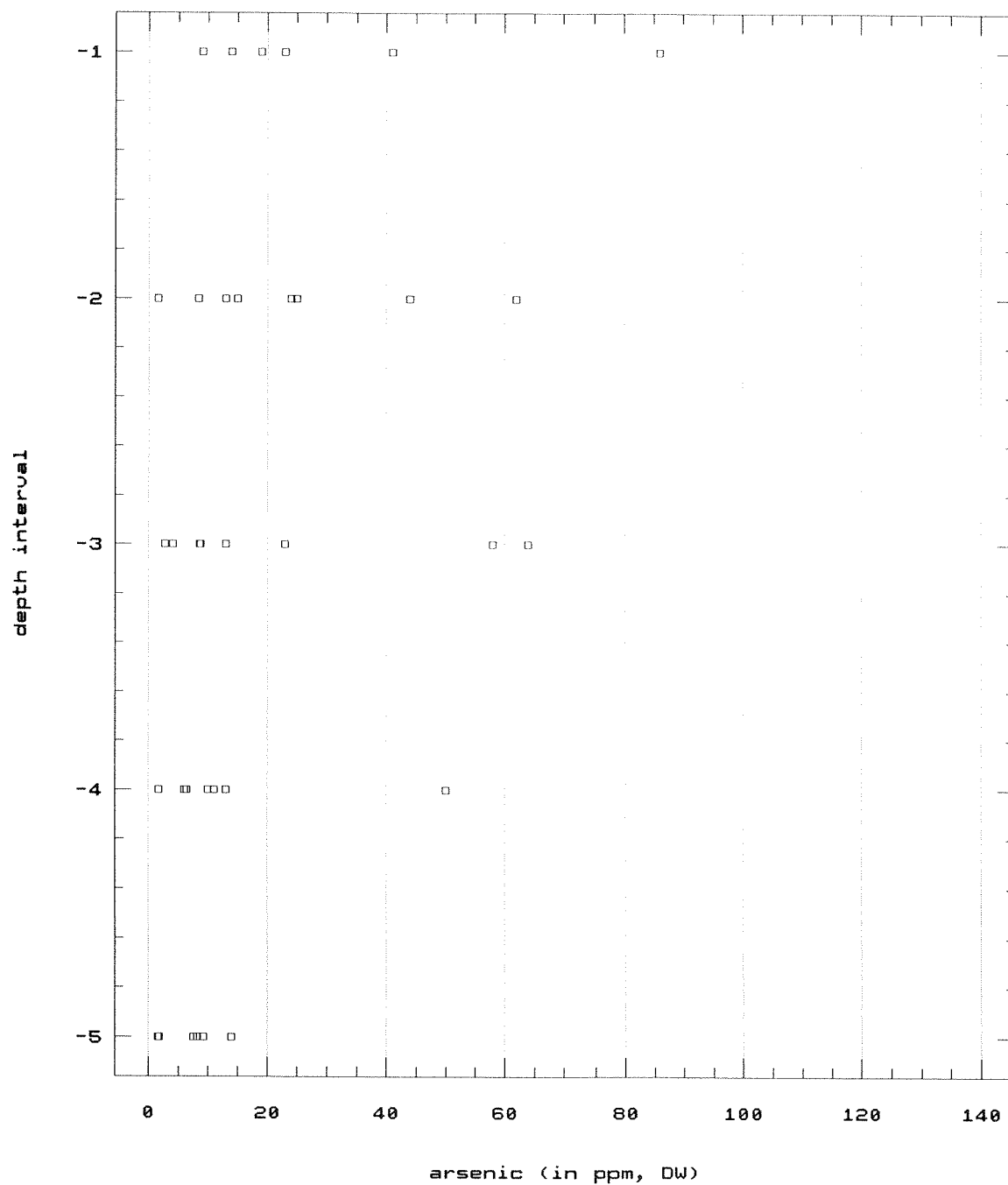
[beach samples, if any, excluded]

Child-Use Area 28 [Zone 1]  
Arsenic Concentrations by Depth



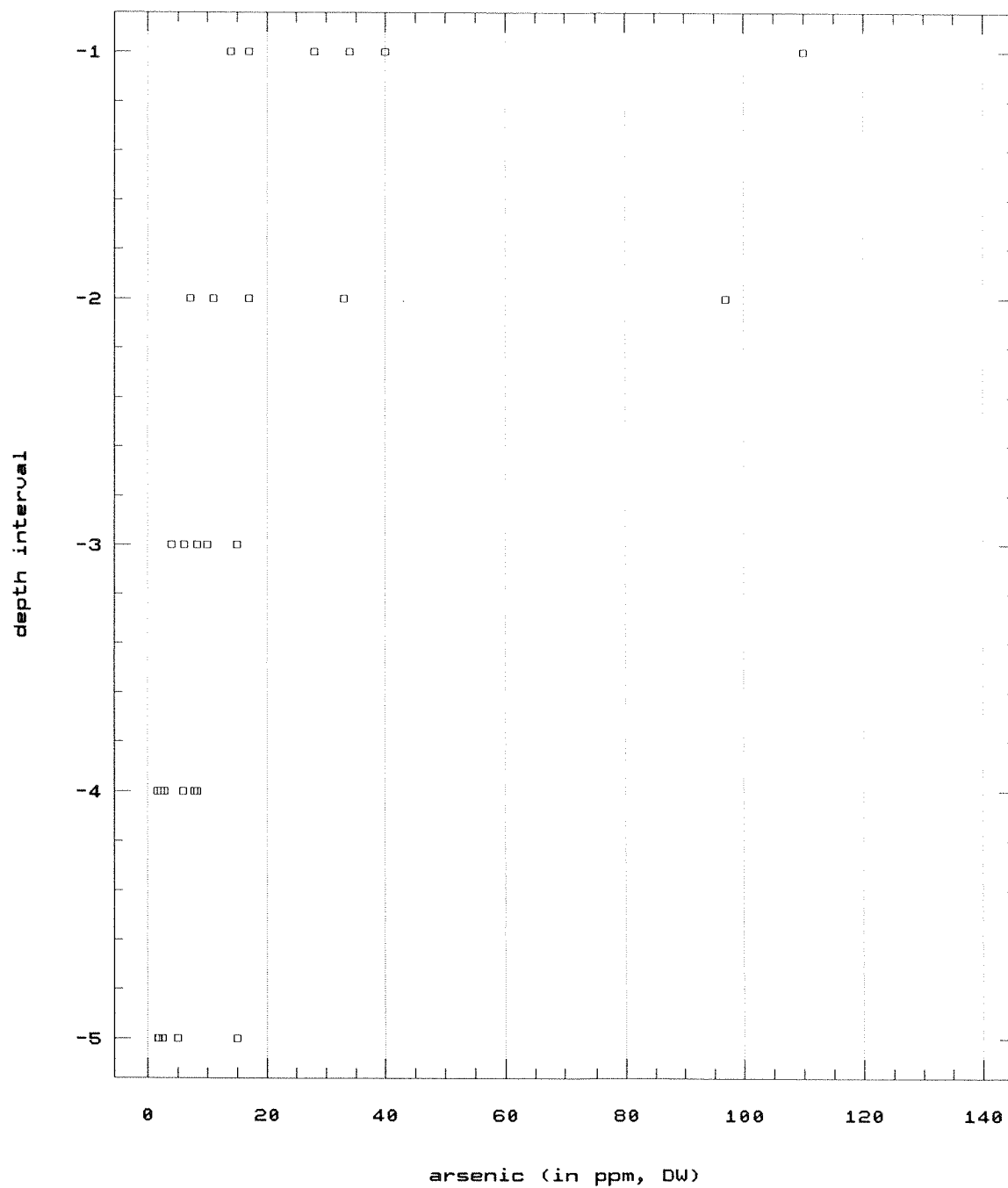
[beach samples, if any, excluded]

Child-Use Area 39 [Zone 1]  
Arsenic Concentrations by Depth



[beach samples, if any, excluded]

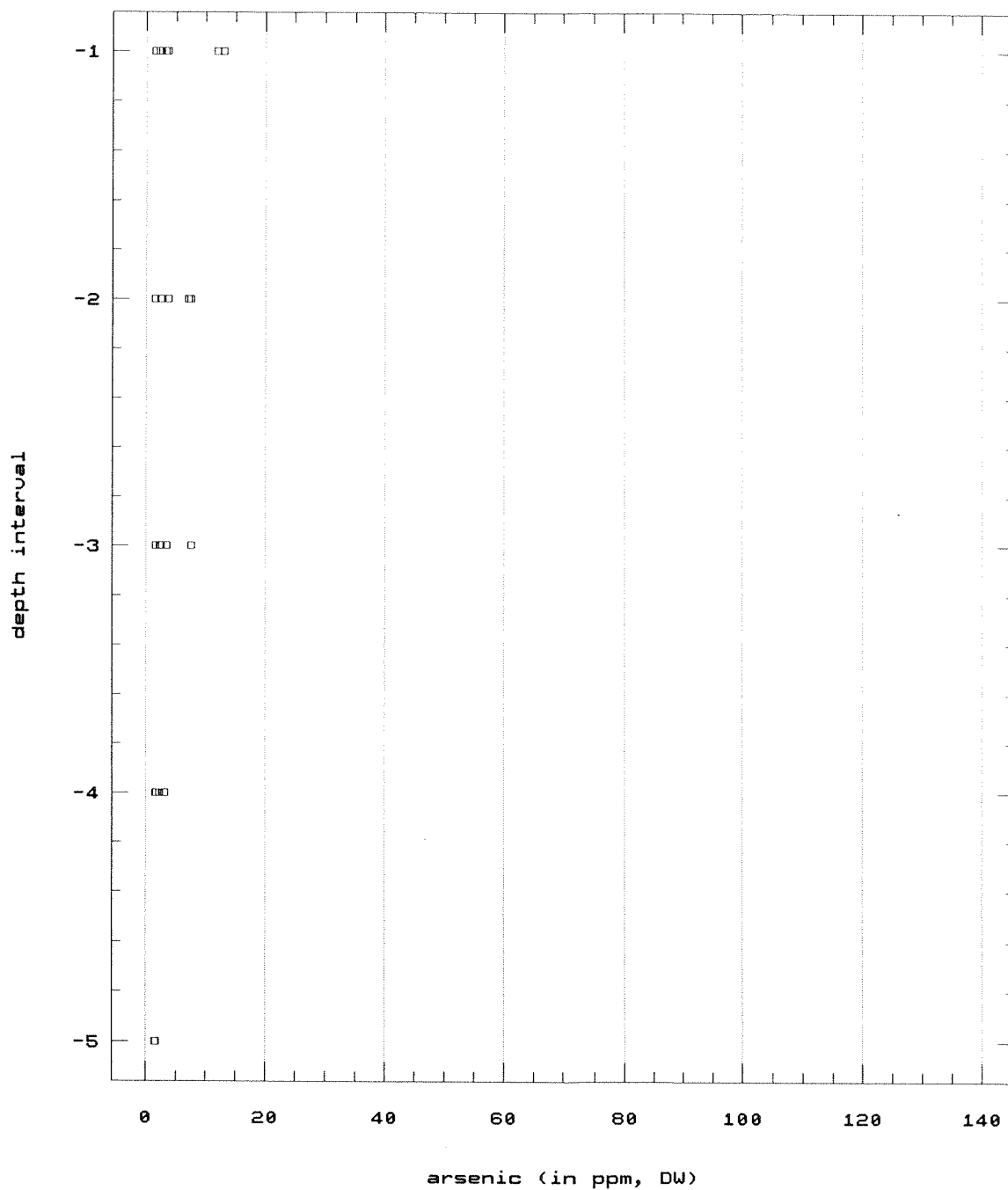
Child-Use Area 45 [Zone 1]  
Arsenic Concentrations by Depth



[beach samples, if any, excluded]

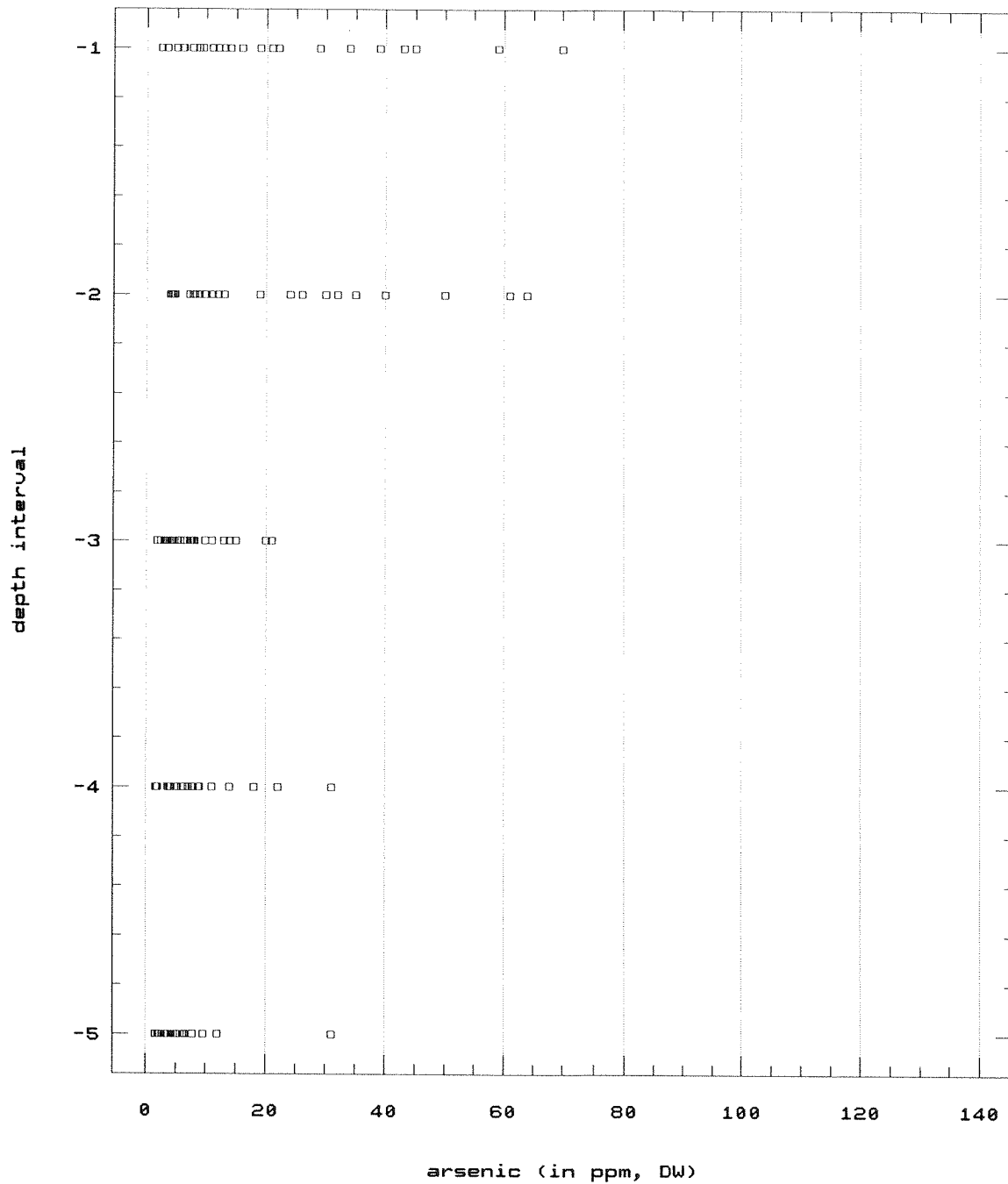


Child-Use Area 4 [Zone 2]  
Arsenic Concentrations by Depth



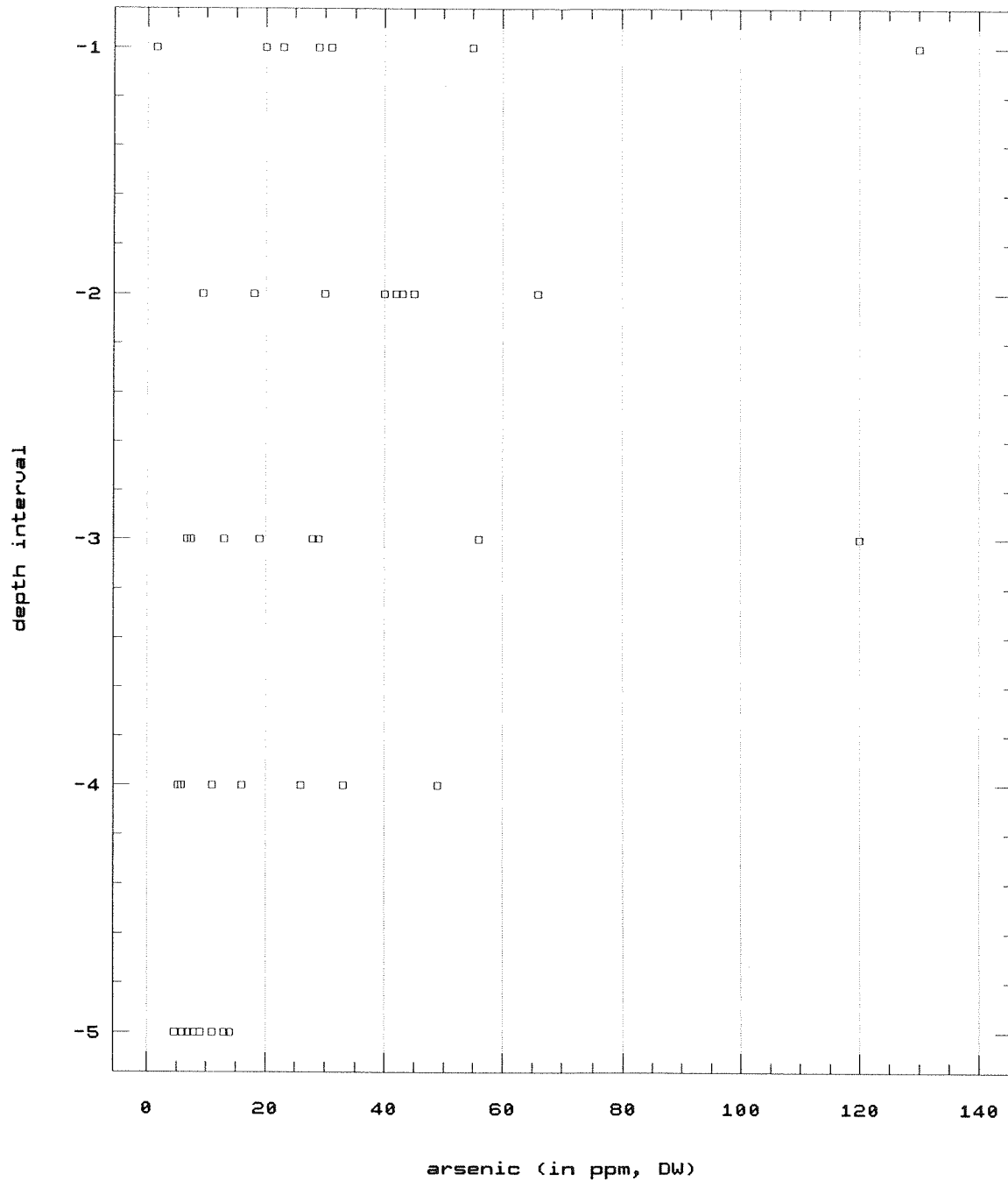
[beach samples, if any, excluded]

Child-Use Area 6 [Zone 2]  
Arsenic Concentrations by Depth



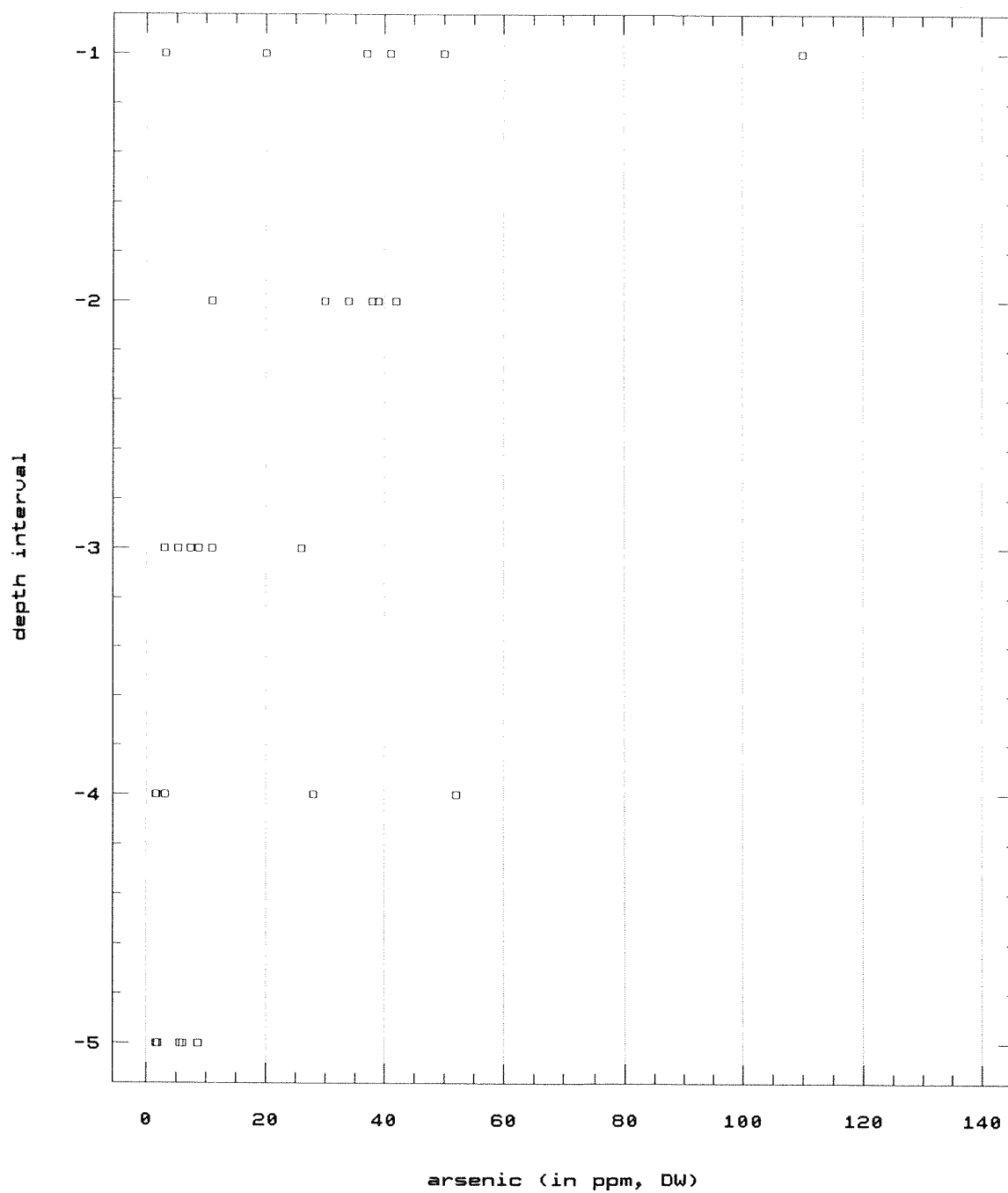
[beach samples, if any, excluded]

Child-Use Area 21 [Zone 2]  
Arsenic Concentrations by Depth



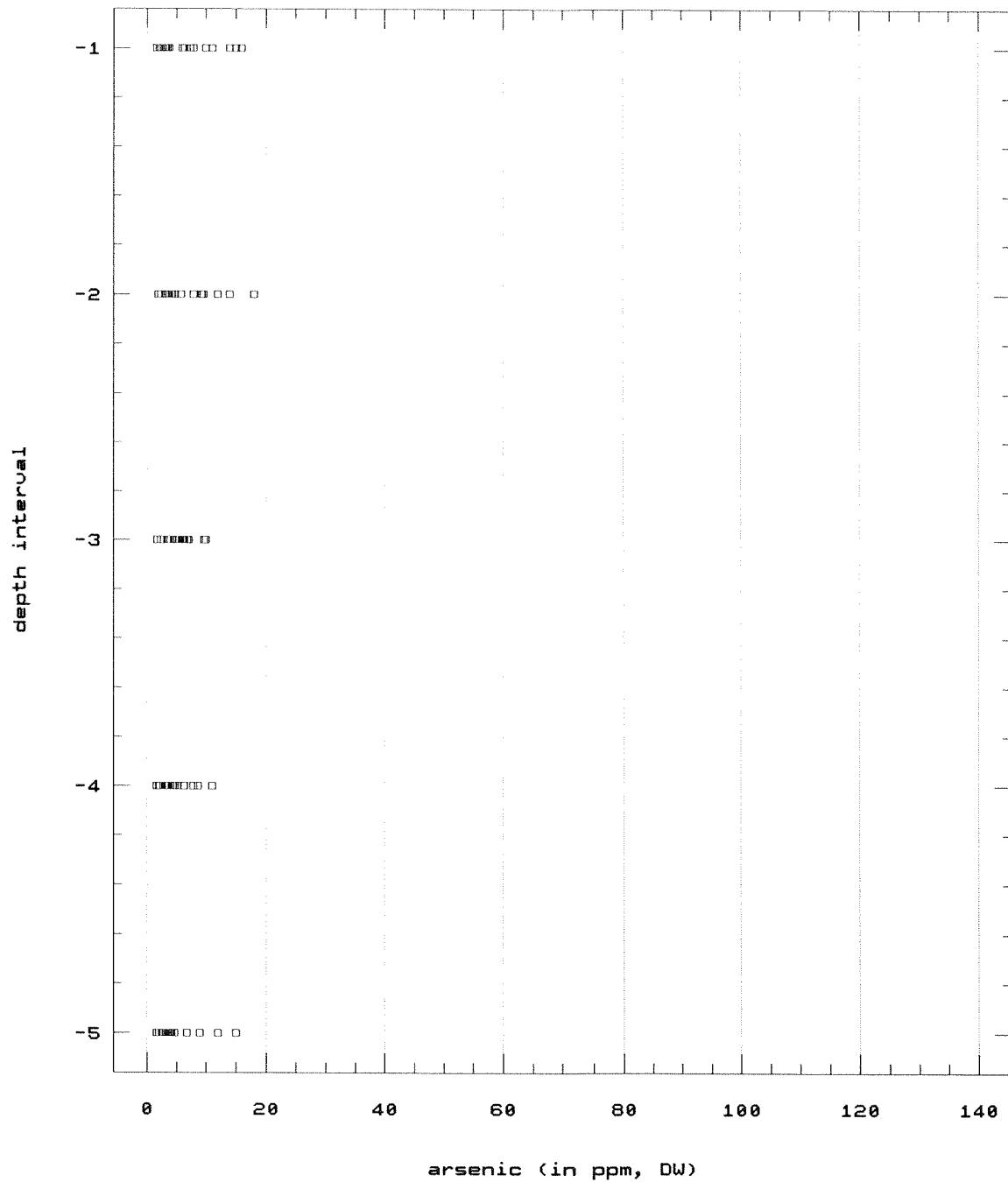
[beach samples, if any, excluded]

Child-Use Area 22 [Zone 2]  
Arsenic Concentrations by Depth



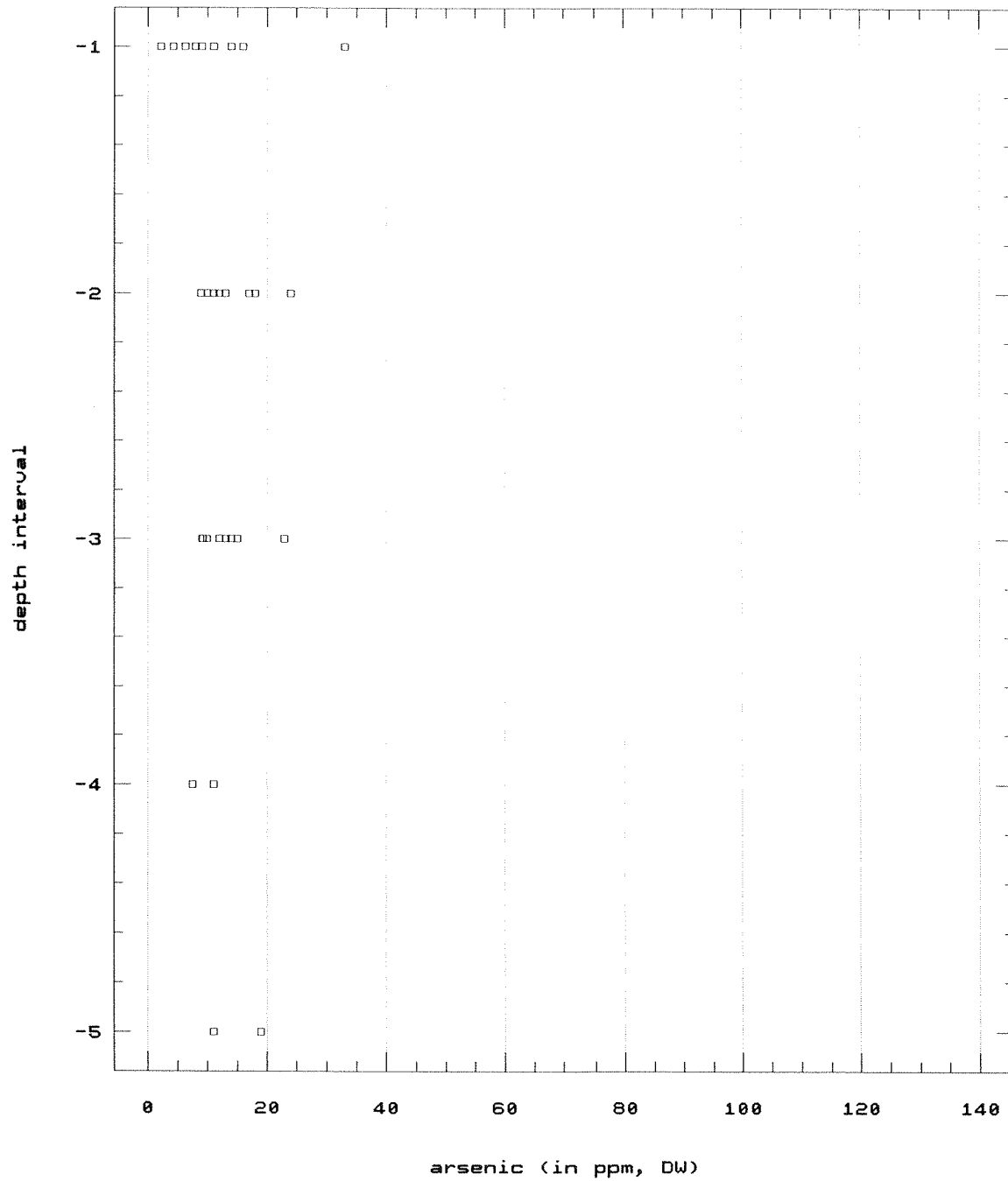
[beach samples, if any, excluded]

Child-Use Area 34 [Zone 2]  
Arsenic Concentrations by Depth



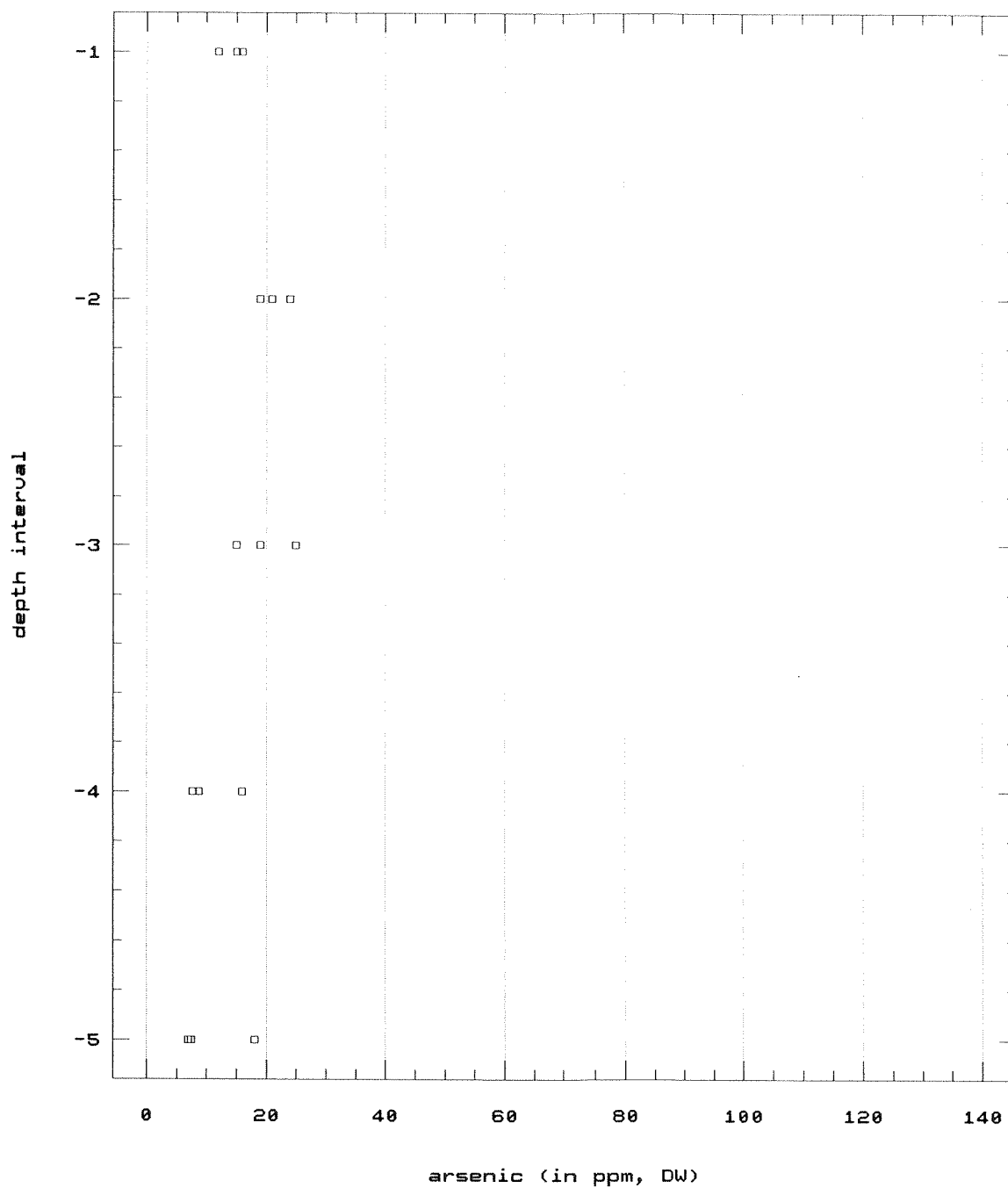
[beach samples, if any, excluded]

Child-Use Area 19 [Zone 3]  
Arsenic Concentrations by Depth



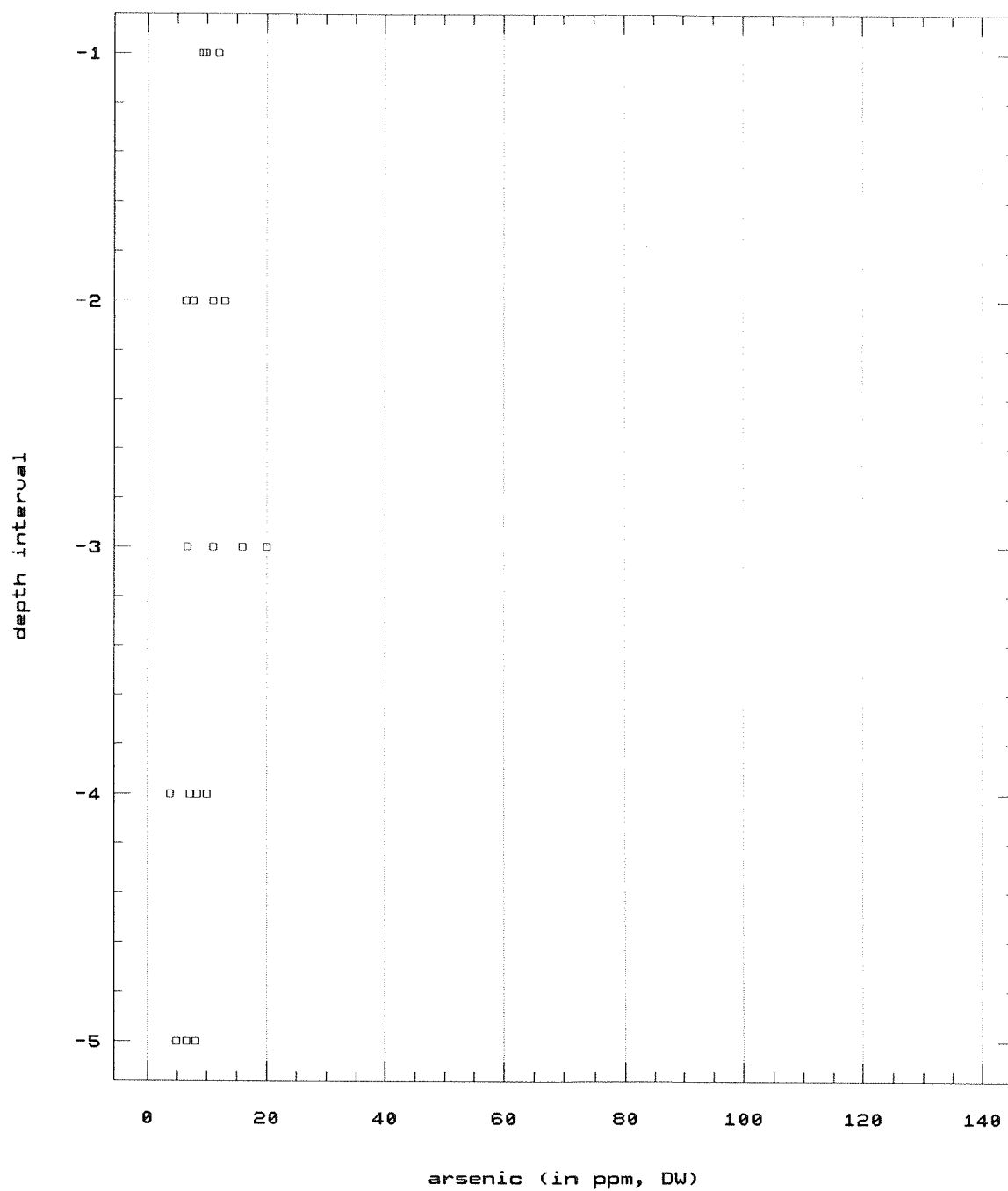
[beach samples, if any, excluded]

Child-Use Area 23 [Zone 3]  
Arsenic Concentrations by Depth



[beach samples, if any, excluded]

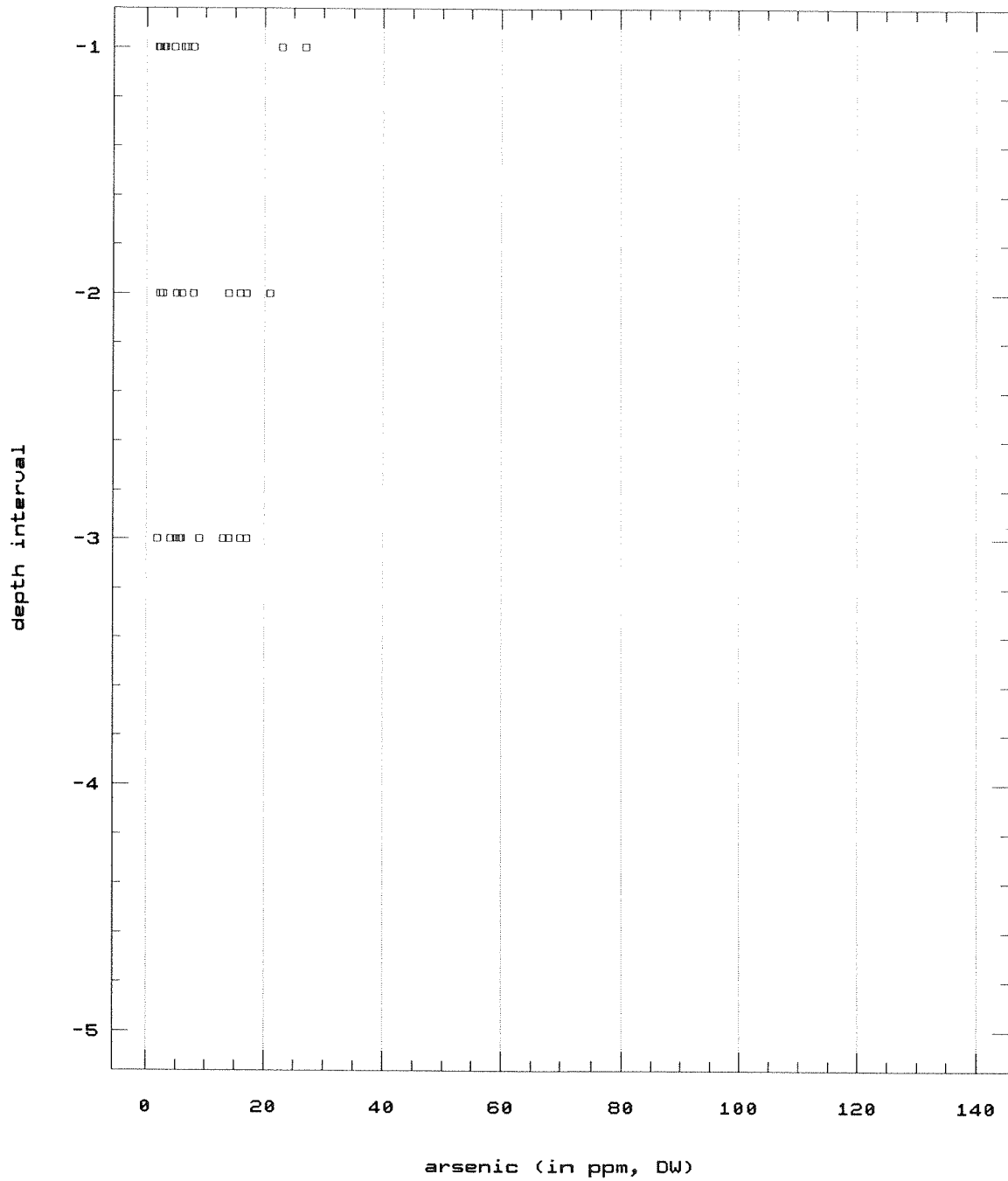
Child-Use Area 25 [Zone 3]  
Arsenic Concentrations by Depth



[beach samples, if any, excluded]

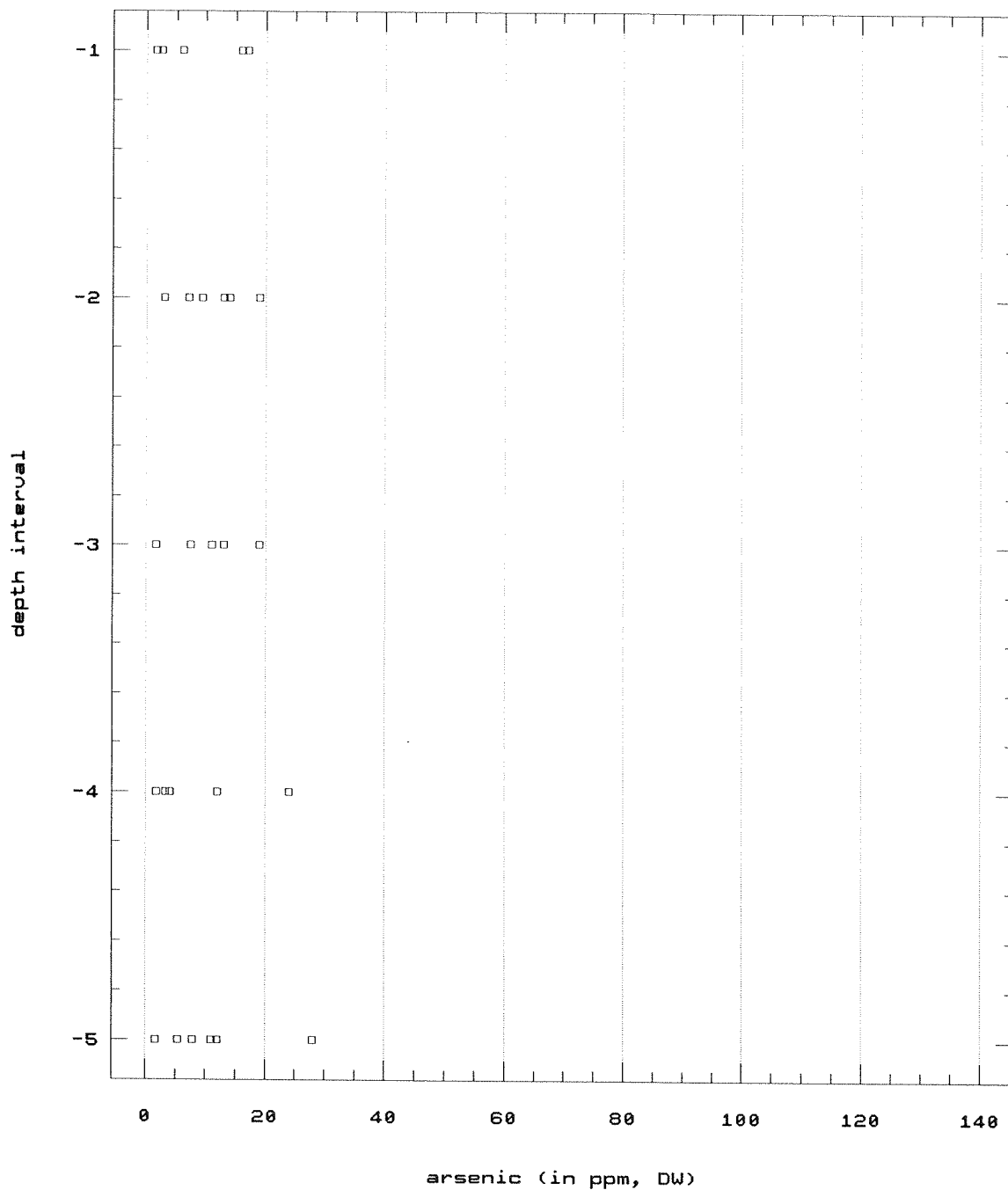


Child-Use Area 26 [Zone 3]  
Arsenic Concentrations by Depth



[beach samples, if any, excluded]

Child-Use Area 46 [Zone 3]  
Arsenic Concentrations by Depth



[beach samples, if any, excluded]